

1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/375,514

DATE: 06/06/2001  
TIME: 16:21:30

Input Set : A:\10412-011.txt  
Output Set: C:\CRF3\06062001\I375514.raw

ENTERED

3 <110> APPLICANT: Reed, John  
5 <120> TITLE OF INVENTION: Regulation of BCL-2 Gene Expression  
7 <130> FILE REFERENCE: 10412-011  
9 <140> CURRENT APPLICATION NUMBER: 09/375,514  
C--> 10 <141> CURRENT FILING DATE: 1999-08-17  
12 <160> NUMBER OF SEQ ID NOS: 29  
14 <170> SOFTWARE: PatentIn version 3.0  
16 <210> SEQ ID NO: 1  
17 <211> LENGTH: 20  
18 <212> TYPE: DNA  
19 <213> ORGANISM: Homo sapiens  
21 <400> SEQUENCE: 1 20  
22 cagcgtg cgc catccttccc  
25 <210> SEQ ID NO: 2  
26 <211> LENGTH: 35  
27 <212> TYPE: DNA  
28 <213> ORGANISM: Homo sapiens  
30 <400> SEQUENCE: 2 35  
31 cttttcctct gggaaggatg gcgcacgctg ggaga  
34 <210> SEQ ID NO: 3  
35 <211> LENGTH: 20  
36 <212> TYPE: DNA  
37 <213> ORGANISM: Homo sapiens  
39 <400> SEQUENCE: 3 20  
40 gatgcaccta cccagcctcc  
43 <210> SEQ ID NO: 4  
44 <211> LENGTH: 33  
45 <212> TYPE: DNA  
46 <213> ORGANISM: Homo sapiens  
48 <400> SEQUENCE: 4 33  
49 acgggttacg gaggtgggt aggtgcatct ggt  
52 <210> SEQ ID NO: 5  
53 <211> LENGTH: 20  
54 <212> TYPE: DNA  
55 <213> ORGANISM: Homo sapiens  
57 <400> SEQUENCE: 5 20  
58 acaaaggcat cctgcagttg  
61 <210> SEQ ID NO: 6  
62 <211> LENGTH: 36  
63 <212> TYPE: DNA  
64 <213> ORGANISM: Homo sapiens  
66 <400> SEQUENCE: 6 36  
67 cccccaactg caggatgcct ttgtggaact gtacgg  
70 <210> SEQ ID NO: 7  
71 <211> LENGTH: 20  
72 <212> TYPE: DNA  
73 <213> ORGANISM: Homo sapiens

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/375,514

DATE: 06/06/2001

TIME: 16:21:30

Input Set : A:\10412-011.txt

Output Set: C:\CRF3\06062001\I375514.raw

75 <400> SEQUENCE: 7	
76 gggaaggatg gcgcacgctg	20
79 <210> SEQ ID NO: 8	
80 <211> LENGTH: 17	
81 <212> TYPE: DNA	
82 <213> ORGANISM: Homo sapiens	
84 <400> SEQUENCE: 8	
85 cgcggtgcgac cctcttg	17
88 <210> SEQ ID NO: 9	
89 <211> LENGTH: 17	
90 <212> TYPE: DNA	
91 <213> ORGANISM: Homo sapiens	
93 <400> SEQUENCE: 9	
94 taccgcgtgc gaccctc	17
97 <210> SEQ ID NO: 10	
98 <211> LENGTH: 17	
99 <212> TYPE: DNA	
100 <213> ORGANISM: Homo sapiens	
102 <400> SEQUENCE: 10	
103 tcctaccgcg tgcgacc	17
106 <210> SEQ ID NO: 11	
107 <211> LENGTH: 17	
108 <212> TYPE: DNA	
109 <213> ORGANISM: Homo sapiens	
111 <400> SEQUENCE: 11	
112 ccttcctacc gcgtgcg	17
115 <210> SEQ ID NO: 12	
116 <211> LENGTH: 17	
117 <212> TYPE: DNA	
118 <213> ORGANISM: Homo sapiens	
120 <400> SEQUENCE: 12	
121 gacccttcct accgcgt	17
124 <210> SEQ ID NO: 13	
125 <211> LENGTH: 17	
126 <212> TYPE: DNA	
127 <213> ORGANISM: Homo sapiens	
129 <400> SEQUENCE: 13	
130 ggagaccctt cctaccg	17
133 <210> SEQ ID NO: 14	
134 <211> LENGTH: 15	
135 <212> TYPE: DNA	
136 <213> ORGANISM: Homo sapiens	
138 <400> SEQUENCE: 14	
139 gcggcggcag cgcgg	15
142 <210> SEQ ID NO: 15	
143 <211> LENGTH: 15	
144 <212> TYPE: DNA	
145 <213> ORGANISM: Homo sapiens	
147 <400> SEQUENCE: 15	

**RAW SEQUENCE LISTING**  
 PATENT APPLICATION: US/09/375,514

DATE: 06/06/2001  
 TIME: 16:21:30

Input Set : A:\10412-011.txt  
 Output Set: C:\CRF3\06062001\I375514.raw

15  
 148 cgggcgggcg acgga  
 151 <210> SEQ ID NO: 16  
 152 <211> LENGTH: 16  
 153 <212> TYPE: DNA  
 154 <213> ORGANISM: Homo sapiens  
 156 <400> SEQUENCE: 16  
 157 cgggagcgcg gcgggc  
 160 <210> SEQ ID NO: 17  
 161 <211> LENGTH: 18  
 162 <212> TYPE: DNA  
 163 <213> ORGANISM: Homo sapiens  
 165 <400> SEQUENCE: 17  
 166 tctcccagcg tgcgccat  
 169 <210> SEQ ID NO: 18  
 170 <211> LENGTH: 18  
 171 <212> TYPE: DNA  
 172 <213> ORGANISM: Homo sapiens  
 174 <400> SEQUENCE: 18  
 175 tgcactcacg ctcgccct  
 178 <210> SEQ ID NO: 19  
 179 <211> LENGTH: 5086  
 180 <212> TYPE: DNA  
 181 <213> ORGANISM: Homo sapiens  
 183 <400> SEQUENCE: 19  
 184 gcgcccgcgc ctcgcgcgc cctgcccgcg cgcccgcgcg gctcccgcgc gccgctctcc 60  
 186 gtggccccgc cgcgctgcgc ccgcccgcgc tgccagcgaa ggtgcggggg ctccggggcc 120  
 188 tccctgcccgc cggccgctcag cgctcggagc gaactgcgcg acgggaggtc cgggaggcga 180  
 190 ccgtagtcgc gccgcgcgcg aggaccagga ggaggagaaa ggggtgcgcag cccggaggcg 240  
 192 ggggtgcgcgc gtgggggtgca gcggaagagg gggtccaggg gggagaactt cgtagcagtc 300  
 194 atccttttta ggaagagagg gaaaaataaa aaccctcccc caccacctcc ttctccccac 360  
 196 cctcgcgcgc accacacaca gcgcgggctt ctacgcgctc gcaccggcgc gccaggcgcg 420  
 198 tcctgccttc atttatccag cagcttttcg gaaaatgcat ttgctgttcg gaggtttaac 480  
 200 agaagacgat tctgcctcc gtcccggct ccttcacgt cccatctccc ctgtctctct 540  
 202 cctggggagg cgtgaagcgc tcccgtggat agagattcat gcctgtgtcc gcgcgtgtgt 600  
 204 gcgcgcgtat aaattgccga gaaggggaaa acatcacagg acttctgcga ataccggact 660  
 206 gaaaattgta attcatctgc gccgcgcgc gccaaaaaaa aactcgagct cttgagatct 720  
 208 ccggttgga ttctgcgga ttgacatttc tgtgaagcag aagtctggga atcgatctgg 780  
 210 aaatcctcct aatttttact cctctcccc ccgactcctg attcattggg aagtttcaaa 840  
 212 tcagctataa ctggagagtg ctgaagattg atgggatcgt tgccttatgc atttgttttg 900  
 214 gttttacaaa aaggaaactt gacagaggat catgctgtac ttaaaaaata caagtaagtc 960  
 216 tcgcacagga aattggttta atgtaacttt caatggaaac ctttgagatt ttttacttaa 1020  
 218 agtgcattcg agtaaattta atttcaggc agcttaatac attgttttta gccgtgttac 1080  
 220 ttgtagtggt tatgccctgc tttcactcag tgtgtacagg gaaacgcacc tgatttttta 1140  
 222 cttattagtt tgttttttct ttaacctttc agcatcacag aggaagtaga ctgatattaa 1200  
 224 caatacttac taataataac gtgcctcatg aaataaagat ccgaaaggaa ttggaataaa 1260  
 226 aatttcctgc gtctcatgcc aagagggaaa caccagaatc aagtgttccg cgtgattgaa 1320  
 228 gacacccctc cgtccaagaa tgcaaagcac atccaataaa atagctggat tataactcct 1380  
 230 cttctttctc tgggggcccgt ggggtgggag ctggggcgag aggtgccggt ggcccccggt 1440  
 232 gcttttctc tgggaaggat ggcgcacgct gggagaacgg ggtacgacaa ccgggagata 1500

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/375,514

DATE: 06/06/2001  
TIME: 16:21:30

Input Set : A:\10412-011.txt  
Output Set: C:\CRF3\06062001\I375514.raw

234	gtgatgaagt	acatccatta	taagctgtcg	cagaggggct	acgagtggga	tgcgggagat	1560
236	gtgggcgcgc	cgcccccg	ggccgcccc	gcaccgggca	tcttctcctc	ccagcccggg	1620
238	cacacgcccc	atccagccgc	atcccgcgac	ccggctcgcca	ggacctcgcc	gctgcagacc	1680
240	ccggctgccc	ccggcgccgc	cgccggggcct	gcgctcagcc	cggtgccacc	tgtgggtccac	1740
242	ctggccctcc	gccaaagccg	cgacgacttc	tcccgcgcgt	accgcggcga	cttcgccgag	1800
244	atgtccagcc	agctgcacct	gacgcccctc	accgcgcggg	gacgctttgc	cacgggtggtg	1860
246	gaggagctct	tcagggacgg	ggtgaactgg	gggaggattg	tggccttctt	tgagttcggt	1920
248	ggggtcatgt	gtgtggagag	cgtaaccggg	gagatgtcgc	ccctgggtga	caacatcgcc	1980
250	ctgtggatga	ctgagtacct	gaaccggcac	ctgcacacct	ggatccagga	taacggaggc	2040
252	tgggatgcct	ttgtggaact	gtacggcccc	agcatgcggc	ctctgtttga	tttctcctgg	2100
254	ctgtctctga	agactctgct	cagtttgccc	ctgggtggag	cttgcacac	cctgggtgccc	2160
256	tatctgagcc	acaagtgaag	tcaacatgcc	tgccccaaac	aaatatgcaa	aaggttcaact	2220
258	aaagcagtag	aaataatatg	cattgtcagt	gatgtaccat	gaaacaaagc	tgagggtctgt	2280
260	ttaagaaaaa	ataacacaca	tataaacatc	acacacacag	acagacacac	acacacacaa	2340
262	caattaacag	tcttcaggca	aaacgtcgaa	tcagctatct	actgccaaag	ggaaatatca	2400
264	tttatttttt	acattattaa	gaaaaaagat	ttattttatt	aagacagtcc	catcaaaact	2460
266	ccgtcttttg	aaatccgacc	actaattgcc	aaacaccgct	tcgtgtggct	ccacctggat	2520
268	gttctgtgcc	tgtaaacata	gattcgcttt	ccatgttggt	ggccggatca	ccatctgaag	2580
270	agcagacgga	tggaaaaagg	acctgatcat	tggggaagct	ggctttctgg	ctgctggagg	2640
272	ctggggagaa	ggtgttcatt	cacttgcat	tctttgccct	gggggcgtga	tattaacaga	2700
274	gggagggttc	ccgtgggggg	aagtccatgc	ctccctggcc	tgaagaagag	actctttgca	2760
276	tatgactcac	atgatgcata	cctggtggga	ggaaaagagt	tgggaacttc	agatggacct	2820
278	agtaccacct	gagatttcca	cgccgaagga	cagcgatggg	aaaaatgccc	ttaaatcata	2880
280	ggaaagtatt	tttttaagct	accaattgtg	ccgagaaaag	catttttagca	atttatacaa	2940
282	tatcatccag	taccttaaac	cctgattgtg	tatatccata	tattttggat	acgcaccccc	3000
284	caactcccaa	tactggctct	gtctgagtaa	gaaacagaat	cctctggaac	ttgagggaag	3060
286	gaacatttgc	gtgacttccg	atcagggaag	ctagagttac	ccagagcatc	aggccgccac	3120
288	aagtgcctgc	ttttaggaga	ccgaagtccg	cagaacctac	ctgtgtccca	gcttggaggc	3180
290	ctggctcctg	aactgagccg	ggccctcact	ggcctcctcc	agggatgatc	aacagggtag	3240
292	tgtggtctcc	gaatgtctgg	aagctgatgg	atggagctca	gaattccact	gtcaagaaa	3300
294	agcagtagag	gggtgtggct	gggcctgtca	ccctggggcc	ctccaggtag	gcccgttttc	3360
296	acgtggagca	taggagccac	gaccttctt	aagacatgta	tactgtaga	gggaaggaac	3420
298	agaggccctg	ggccttccta	tcagaaggac	atggtgaagg	ctgggaacgt	gaggagaggc	3480
300	aatggccacg	gcccattttg	gctgtagcac	atggcacgtt	ggctgtgtgg	ccttggccac	3540
302	ctgtgagttt	aaagcaaggc	tttaaatgac	tttgagagg	gtcacaaaac	ctaaaagaag	3600
304	cattgaagtg	aggtgtcatg	gattaattga	cccctgtcta	tggaattaca	tgtaaaacat	3660
306	tatcttgtca	ctgtagtttg	gttttatttg	aaaacctgac	aaaaaaaaag	ttccaggtgt	3720
308	ggaatatggg	ggttatctgt	acatcctggg	gcattaaaaa	aaaatcaatg	gtgggggaact	3780
310	ataaagaagt	aacaaaagaa	gtgacatctt	cagcaaataa	actaggaaat	tttttttct	3840
312	tccagtttag	aatcagcctt	gaaacattga	tgggaataact	ctgtggcatt	attgcattat	3900
314	ataccattta	tctgtattaa	ctttggaatg	tactctgttc	aatgtttaat	gctgtggttg	3960
316	atatttcgaa	agctgcttta	aaaaaataca	tgcattctcag	cgtttttttg	tttttaattg	4020
318	tatttagtta	tggcctatac	actattttgt	agcaaagggtg	atcgttttct	gtttgagatt	4080
320	tttatctctt	gattcttcaa	aagcattctg	agaagggtgag	ataagccctg	agtctcagct	4140
322	acctaagaaa	aacctggatg	tcactggcca	ctgaggagct	ttgtttcaac	caagtcatgt	4200
324	gcattttccac	gtcaacagaa	ttgtttattg	tgacagtat	atctgtgtgc	cctttgacct	4260
326	tgtttcttga	aggtttcctc	gtccctgggc	aattccgcac	ttaatccatg	gtattcagga	4320
328	ttacatgcat	gttttggttaa	acccatgaga	ttcattcagt	taaaaatcca	gatggcgaat	4380
330	gaccagcaga	ttcaaatcta	tggtggtttg	accttttagag	agttgcttta	cgtggcctgt	4440

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/375,514

DATE: 06/06/2001

TIME: 16:21:30

Input Set : A:\10412-011.txt

Output Set: C:\CRF3\06062001\I375514.raw

```

332 ttcaacacag acccaccag agccctcctg ccctccttcc gcggggggctt tctcatggct 4500
334 gtccttcagg gtcttcctga aatgcagtg tgcgttacgct ccaccaagaa agcaggaaac 4560
336 ctgtggtatg aagccagacc tccccggcgg gcctcaggga acagaatgat cagaccttg 4620
338 aatgattcta atttttaagc aaaatattat tttatgaaag gtttacattg tcaaagtgat 4680
340 gaatatggaa tatccaatcc tgtgctgcta tcccgccaaa atcattttta tggagtcagt 4740
342 ttgcagtatg ctccacgtgg taagatcctc caagctgctt tagaagtaac aatgaagaac 4800
344 gtggacgttt ttaatatataa gcctgttttg tcttttggtg ttgttcaaac gggattcaca 4860
346 gagtatttga aaaatgtata tatattaaga ggtcacgggg gctaattgct agctggctgc 4920
348 cttttgctgt ggggttttgt tacctgggtt taataacagt aaatgtgcc agcctcttgg 4980
350 cccagaact gtacagtatt gtggctgcac ttgctctaag agtagttgat gttgcatttt 5040
352 ccttattgtt aaaaacatgt tagaagcaat gaatgtatat aaaagc 5086
355 <210> SEQ ID NO: 20
356 <211> LENGTH: 239
357 <212> TYPE: PRT
358 <213> ORGANISM: Homo sapiens
360 <400> SEQUENCE: 20
362 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
363 1 5 10 15
365 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
366 20 25 30
368 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
369 35 40 45
371 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
372 50 55 60
374 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
375 65 70 75 80
377 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Val Val His Leu Ala
378 85 90 95
380 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
381 100 105 110
383 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
384 115 120 125
386 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
387 130 135 140
389 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
390 145 150 155 160
392 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
393 165 170 175
395 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
396 180 185 190
398 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
399 195 200 205
401 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
402 210 215 220
404 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
405 225 230 235
407 <210> SEQ ID NO: 21
408 <211> LENGTH: 239
409 <212> TYPE: PRT

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/375,514

DATE: 06/06/2001  
TIME: 16:21:31

Input Set : A:\10412-011.txt

Output Set: C:\CRF3\06062001\I375514.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date